

Accomplishments in Broader Aspects

- **Education and Mentoring**

Recent Ph.Ds:

X. Zhuang, asst. prof., Harvard Univ., in biophysics.

X. Wei, staff member, Bell Labs, in Optics Communications.

Recent visiting postdocs/scientists: 3

- **Industrial Connections**

Received long-term visiting scientists from NEC and Hitachi, Japan.

- **International Activities**

Participated in Int. Liquid Crystal Conference.

Visited and delivered invited talks at institutions in Japan, Korea and Taiwan.

Nonlinear Optical Studies of Polymer and Liquid Crystal Interfaces

- Develop unique spectroscopic method for probing polymer surface structures.
- Understand how rubbed polymer surface can act as template to align liquid crystal monolayer and film.
- Provide ideas on design of side-chain polymers used for controlled alignment of liquid crystal films---- relevant for liquid crystal display industry.

